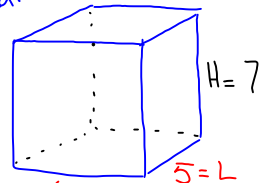


CH 10-9

Volume of Prisms  
and CyLinders.

Base Area  $\times$  height

Rectangular  
Prism



$w = 6$

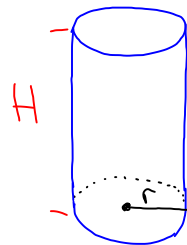
$l = 5$

Base Area  $\times$  Height

$6 \times 5 \times 7 = 210 \text{ cubic units}$



$V = \frac{bh}{2} \times H$



$V_c = \pi r^2 \times H$

$V_c = \pi r \times r \times H$

Volume is Labeled  
in Cubic Units

$$V = 2,411.52 \text{ mL}^3$$

$$H = 12$$

$$2,411.52 = 3.14 \times 12 \times r \times r$$

$$\frac{2,411.52}{37.68} = \frac{37.68}{37.68} \times r^2$$

$$64 = r^2$$

$$\sqrt{64} = r$$

$$8 = r$$